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STAAS & HALSEY LLP  
700 11TH STREET, NW  
SUITE 500  
WASHINGTON, DC 20001

EXAMINER

DIXON, THOMAS A

ART UNIT

PAPER NUMBER

3629

DATE MAILED: 05/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/654,929

Applicant(s)

AKIYAMA ET AL.

Examiner

Thomas A. Dixon

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 March 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 08 June 2001 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☒ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☒ Certified copies of the priority documents have been received in Application No. 08/510,122.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 19.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### ***Drawings***

2. The drawing changes to Figure 2, submitted 8 June 2001 and Figure 7, submitted 28 August 2002 are approved.

### ***Specification***

3. The new title of the invention acceptable

### ***Reissue Applications***

4. The original patent, or an affidavit or declaration as to loss or inaccessibility of the original patent, must be received before this reissue application can be allowed.  
See 37 CFR 1.178.

### ***Oath/Declaration***

5. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

- a. It does not state whether the inventor is a sole or joint inventor of the invention claimed.
- b. The nature of the defect(s) in the declaration is that the error set forth as the basis for the Reissue application is based on improper recapture. Specifically, the "input switchover" and "output switchover", argued as the error which forms the basis for the reissue application, were added to the original claims and argued by applicant as the distinguishing features of the claims in both amendments B, filed 6 May 1997, and C, filed 8 December 1997, of the parent application. Therefore, correction constitutes improper recapture and cannot form the basis of a reissue application.

6. Claims 1-23 are rejected as being based upon a defective reissue declaration under 35 U.S.C. 251 as set forth above. See 37 CFR 1.175.

***Claim Rejections - 35 USC § 112 1<sup>st</sup> Paragraph***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7 Claims 8, 12, 16, 20, 21, 22, 23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable

one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The "one way connection" is seen to be new matter which is unsupported by the original specification and drawings.

***Claim Rejections - 35 USC § 112 2<sup>nd</sup> Paragraph***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 8, 12, 16, 20, 21, 22, 23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "visibly and audibly outputting at least one of visible and audible data" appears to be contradictory as it claims visibly and audibly outputting even if only one of visible or audible data is presented.

***Response to Amendment and Arguments***

9. The amendments filed 1/30/02, 8/28/02, 3/26/03 are objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows:

the "one way" characterization of the connection is seen to be new matter.

Applicant is required to cancel the new matter in the reply to this Office Action.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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10. Claims 8-10, 12-14, 16-18, 20, 21, 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Shear (5,510,498).

As per Claim 8.

Shear ('598) discloses:

a digital information receiving means, see figure 3 (304);

drive means for reading digital information from and writing digital information to a removable storage medium, see (308) and Column 13, lines 30-54;

information converting means for converting digital information received into at least one of visible or audible data, see (316) and Column 20, lines 31-40;

switch means for switching a connection between said digital information receiving means and said information converting means, between said digital information receiving means and said drive means, and between said drive means and said information converting means, see (308) and column 16, line 54 – column 17, line 12;

outputting means, connected to said information converting means, visibly and audibly outputting at least one of visible and audible data, see figure 5 (504, display station).

Shear ('598) does not specifically disclose the communication is one-way, this limitation is seen as new matter, not disclosed in the parent case, and will be given no weight.

As per Claim 9.

Shear ('598) further discloses:

a deciphering means for deciphering digital information received by receiving means when information is ciphered and for providing the deciphered digital information to said information converting means, see figure 3 (310, 316),

and for deciphering digital information read by said drive means when the information is ciphered and for providing the deciphered information to said information converting means, see (308, 310, 316).

As per Claim 10.

Shear ('598) further discloses billing managing means for managing billing, see figure 1 (300) based on utilization of digital information received and read, see column 9, lines 26-46.

As per Claim 12.

Shear ('598) discloses:

a digital information receiver, see figure 3 (304);

a drive device reading digital information from and writing digital information to a removable storage medium, see (308) and Column 13, lines 30-54;

a converter converting digital information received into at least one of visible or audible data, see (316) and Column 20, lines 31-40;

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a switch means for switching a connection between said digital information receiver and said information converter, between said digital information receiver and said drive device, and between said drive device and said information converter, see (308) and column 16, line 54 – column 17, line12;

an output device, connected to the converter, visibly and audibly outputting at least one of visible and audible data, see figure 5 (504, display station).

Shear ('598) does not specifically disclose the communication is one-way, this limitation is seen as new matter, not disclosed in the parent case, and will be given no weight.

As per Claim 13.

Shear ('598) further discloses:

a decipherer device deciphering digital information received by receiving means when information is ciphered and for providing the deciphered digital information to said information converting means, see figure 3 (310, 316),

and for deciphering digital information read by said drive means when the information is ciphered and for providing the deciphered information to said information converting means, see (308, 310, 316).

As per Claim 14.

Shear ('598) further discloses billing managing device managing billing, see figure 1 (300) based on utilization of digital information received and read, see column 9, lines 26-46.

As per Claim 16.

Shear ('598) discloses:

a communication path, see Figure 3 (connector to host computer)

a storage medium storing digital data, see figure 1 (100);

a converter converting digital information received into at least one of visible or audible data, see figure 3 (316) and Column 20, lines 31-40;

a switch having

a first switch position which connects digital data provided by the communication path to the converter so that the converter converts the digital data into at least visible or audible data, see figure 3 (304, 308, 316) and column 16, line 54 – column 17, line12;

a second switch position which connects digital data read from the storage medium to the converter so that the converter converts the digital data read from the storage medium into at least visible or audible data, see figure 1 (100), figure 3 (304, 308, 316) and column 16, line 54 – column 17, line12, and

a third switch position which connects digital data provided by the communication path to the storage media so that the digital data provided via the communication path is stored in the storage medium, see Column 9, lines 47-57;

an output device, connected to the converter, visibly and audibly outputting at least one of visible and audible data, see figure 5 (504, display station).

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Shear ('598) does not specifically disclose the communication is one-way, this limitation is seen as new matter, not disclosed in the parent case, and will be given no weight.

As per Claim 17.

Shear ('598) further discloses:

a deciphering device which  
deciphers digital information received by receiver when information is ciphered  
and for providing the deciphered digital information to said information converter, see  
figure 3 (310, 316),

and deciphers digital information read by said drive when the information is  
ciphered and for providing the deciphered information to said information converter, see  
(308, 310, 316).

As per Claim 18.

Shear ('598) further discloses billing managing device managing billing, see  
figure 1 (300) based on utilization of digital information received and read, see column  
9, lines 26-46.

As per Claim 20.

Shear ('598) discloses:

a communication path, see Figure 3 (connector to host computer)  
a storage medium storing digital data, see figure 1 (100);  
a converter converting digital information received into at least one of visible or  
audible data, see figure 3 (316) and Column 20, lines 31-40;

a switch having

a first switch position which, when non encrypted data is provided,  
connects digital data provided by the communication path to the converter so that  
the converter converts the digital data into at least visible or audible data, see  
figure 3 (304, 308, 316) and column 16, line 54 – column 17, line12;

a second switch position which, when encrypted digital data is provided,  
connects digital information provided to the converter and the decoder and then  
the digital data is decoded by the decoder and converted by the converter into at  
least visible or audible data, see figure 3 (310, 316) and column 16, line 54 –  
column 17, line12;

a third switch position which, non encrypted digital data is read from the  
storage medium connects converter so that the converter converts the digital  
data read from the storage medium into at least visible or audible data, see figure  
1 (100), figure 3 (304, 308, 316) and column 16, line 54 – column 17, line12, and

a fourth switch position which, when encrypted digital data is read from the  
storage medium, when encrypted digital data is provided, connects digital  
information provided from the storage medium to the converter and the decoder  
and then the digital data is decoded by the decoder and converted by the



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converter into at least visible or audible data, see figure 1 (100), figure 3 (304, 308, 310, 316) and column 16, line 54 – column 17, line12;

a fifth switch position which connects digital data provided by the communication path to the storage media so that the digital data provided via the communication path is stored in the storage medium, see Column 9, lines 47-57;

an output device, connected to the converter, visibly and audibly outputting at least one of visible and audible data, see figure 5 (504, display station).

Shear ('598) does not specifically disclose the communication is one-way, this limitation is seen as new matter, not disclosed in the parent case, and will be given no weight.

As per Claim 21.

Shear ('598) discloses:

a first switch position which connects digital data provided by the communication path to the converter so that the converter converts the digital data into at least visible or audible data, see figure 3 (304, 308, 316) and column 16, line 54 – column 17, line12;

a second switch position which connects digital data read from the storage medium to the converter so that the converter converts the digital data read from the storage medium into at least visible or audible data, see figure 1 (100), figure 3 (304, 308, 316) and column 16, line 54 – column 17, line12; and

a third switch position which connects digital data provided by the communication path to the storage media so that the digital data provided via the communication path is stored in the storage medium, see Column 9, lines 47-57;

an output device, connected to the converter, visibly and audibly outputting at least one of visible and audible data, see figure 5 (504, display station).

Shear ('598) does not specifically disclose the communication is one-way, this limitation is seen as new matter, not disclosed in the parent case, and will be given no weight.

As per Claim 22.

Shear ('598) discloses:

a first means which connects digital data provided by the communication path to the converter so that the converter converts the digital data into at least visible or audible data, see figure 3 (304, 308, 316) and column 16, line 54 – column 17, line12;

a second means which connects digital data read from the storage medium to the converter so that the converter converts the digital data read from the storage medium into at least visible or audible data, see figure 1 (100), figure 3 (304, 308, 316) and column 16, line 54 – column 17, line12; and

a third means which connects digital data provided by the communication path to the storage media so that the digital data provided via the communication path is stored in the storage medium, see Column 9, lines 47-57;

an output device, connected to the converter, visibly and audibly outputting at least one of visible and audible data, see figure 5 (504, display station).

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Shear ('598) does not specifically disclose the communication is one-way, this limitation is seen as new matter, not disclosed in the parent case, and will be given no weight.

As per Claim 23.

Shear ('598) discloses:

a digital information receiving means, see figure 3 (304);  
drive means for reading digital information from and writing digital information to a removable storage medium, see (308) and Column 13, lines 30-54;

information converting means for converting digital information received into at least one of visible or audible data, see (316) and Column 20, lines 31-40;

switch means for switching a connection between said digital information receiving means and said information converting means, between said digital information receiving means and said drive means, and between said drive means and said information converting means, see (308) and column 16, line 54 – column 17, line 12;

selecting means for selecting one of said digital information received by said digital information receiving means and said digital information read by said drive means and inputting the selected digital information to said information converting means to obtain at least one of visible and audible data based on the selected digital information which is received from different types of digital information sources, see figure 6 (906) ;

an output device, connected to the converter, visibly and audibly outputting at least one of visible and audible data, see figure 5 (504, display station).

Shear ('598) does not specifically disclose the communication is one-way, this limitation is seen as new matter, not disclosed in the parent case, and will be given no weight.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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11. Claims 11, 15, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shear (5,410,598) in view of Allen (5,418,713).

As per Claim 11.

Shear ('598) does not specifically disclose extension means for extending digital information received by said digital information receiving means when said digital information is compressed,

and for extending said digital information read by said drive means when said digital information is compressed.

Allen ('713) teaches compression, see figure 2 (7) and decompression, see figure 6 (169), for the storage and exchange of digital video/graphic data files for the benefit of faster transfer times.

Therefore, it would have been obvious to one of ordinary skill at the time the invention was made to modify the invention of Shear ('498) to include compression and decompression of digital information as taught by Allen ('713) for the benefit of faster transfer times.

As per Claim 15.

Shear ('598) does not specifically disclose extender extending digital information received by said digital information receiving means when said digital information is compressed,

and extending said digital information read by said drive means when said digital information is compressed.

Allen ('713) teaches data compression, see figure 2 (7) and decompression, see figure 6 (169), for the storage and exchange of digital video/graphic data files for the benefit of faster transfer times.

Therefore, it would have been obvious to one of ordinary skill at the time the invention was made to modify the invention of Shear ('498) to include compression and decompression of digital information as taught by Allen ('713) for the benefit of faster transfer times.

As per Claim 19.

Shear ('598) does not specifically disclose extender extending digital information received by said digital information receiving means when said digital information is compressed,

and extending said digital information read by said drive means when said digital information is compressed.

Allen ('713) teaches data compression, see figure 2 (7) and decompression, see figure 6 (169), for the storage and exchange of digital video/graphic data files for the benefit of faster transfer times.

Therefore, it would have been obvious to one of ordinary skill at the time the invention was made to modify the invention of Shear ('498) to include compression and

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decompression of digital information as taught by Allen ('713) for the benefit of faster transfer times.

***Prior Art Made of Record***

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

JP 07-105284 to Yoko et al, submitted by applicant.  
Japanese office action for application Hei 6-219364 is the closest non-patent literature.

***Allowable Subject Matter***

13. Claims 1-7 are allowable.

14. The following is an examiner's statement of reasons for allowability:

As per Claims 1, 4, 6, 7.

The prior art of record, specifically, Arnold et al (176) in view of Hartman Jr ('166) does not disclose a "signal processor", "error processing means", "a first and second input switchover" and "output route switchover for receiving encrypted and non-encrypted data" as claimed, but remain rejected to under 35 U.S.C. 251 as set forth above. See 37 CFR 1.175.

The claims that depend from the above allowable claims are allowable for the same reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas A. Dixon whose telephone number is (703) 305-4645. The examiner can normally be reached on Monday - Thursday 6:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Weiss can be reached on (703) 308-2702. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.



Thomas A. Dixon  
Examiner  
Art Unit 3629

May 15, 2003